

APPENDIX A – SAR TEST PLOTS

LXT420 (Face)

SAM I Phantom, Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.72,7.72,7.72); Crest factor: 1.0; Head 450 MHz: $\sigma = 0.87 \text{ mho/m}$, $\epsilon_r = 43.7$ $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.466 mW/g, SAR (10g): 0.320 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.83 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

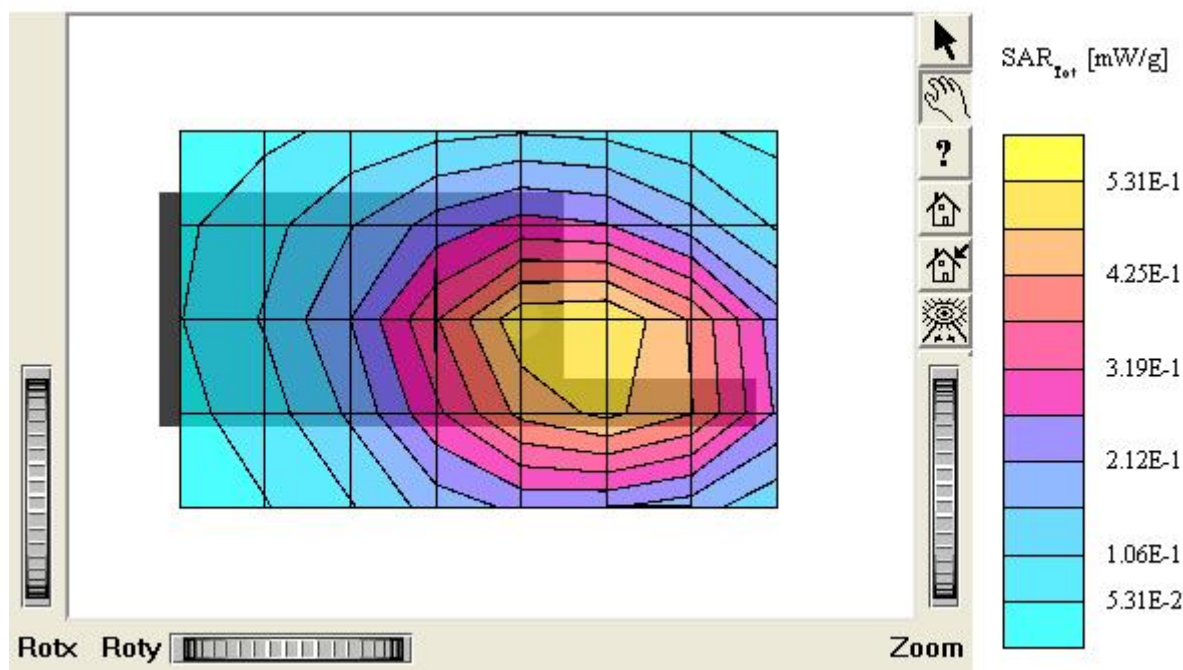
Face / Antenna: in (fixed)

Conducted Power: 1.65W (Battery Type: Bexel)

Mode: FM GMRS Channel: 1 (462.5625 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Face)

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.72,7.72,7.72); Crest factor: 1.0; Head 450 MHz: $\sigma = 0.87$ mho/m $\epsilon_r = 43.7$ $\rho = 1.00$ g/cm³

Cube 5x5x7; SAR (1g): 0.539 mW/g, SAR (10g): 0.371 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.87 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

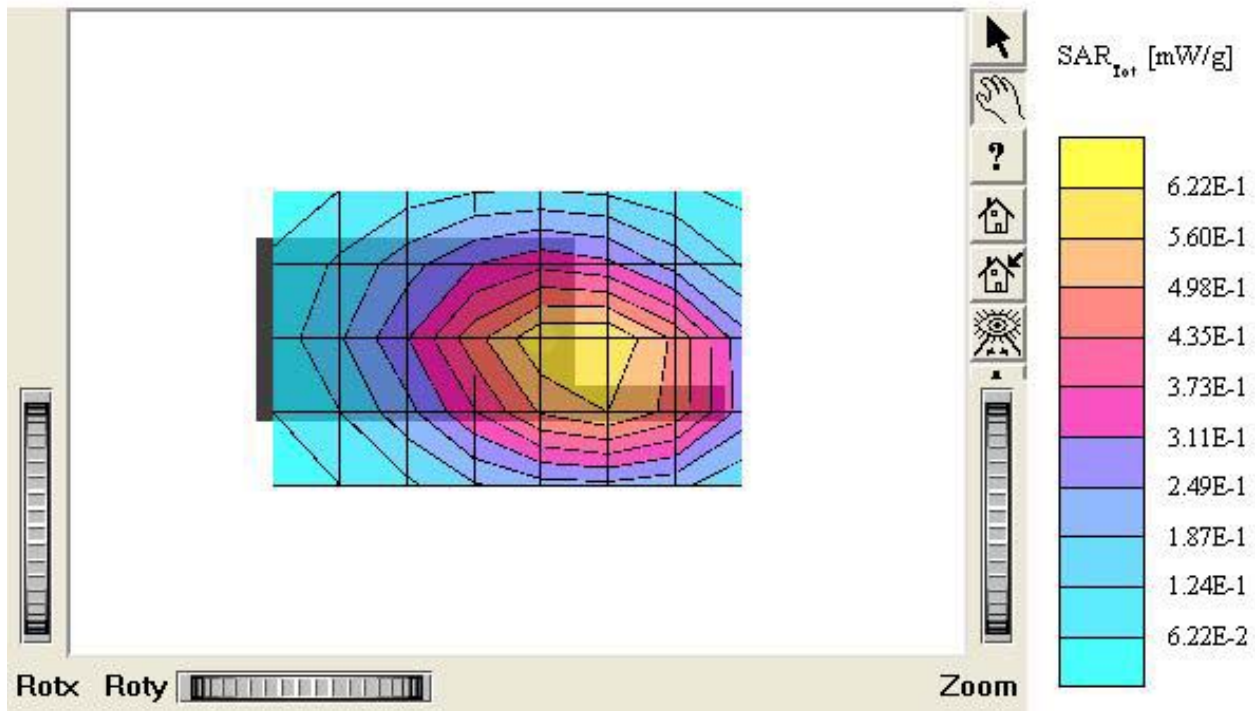
Face / Antenna: in (fixed)

Conducted Power: 1.66W (Battery Type: Bexel)

Mode: FM GMRS Channel: 15 (462.5500 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Face)

SAM I Phantom; Flat Section; Position: (90°, 90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.72, 7.72, 7.72); Crest factor: 1.0; Head 450 MHz: $\sigma = 0.87 \text{ mho/m}$, $\epsilon_r = 43.7$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.550 mW/g, SAR (10g): 0.378 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.89 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

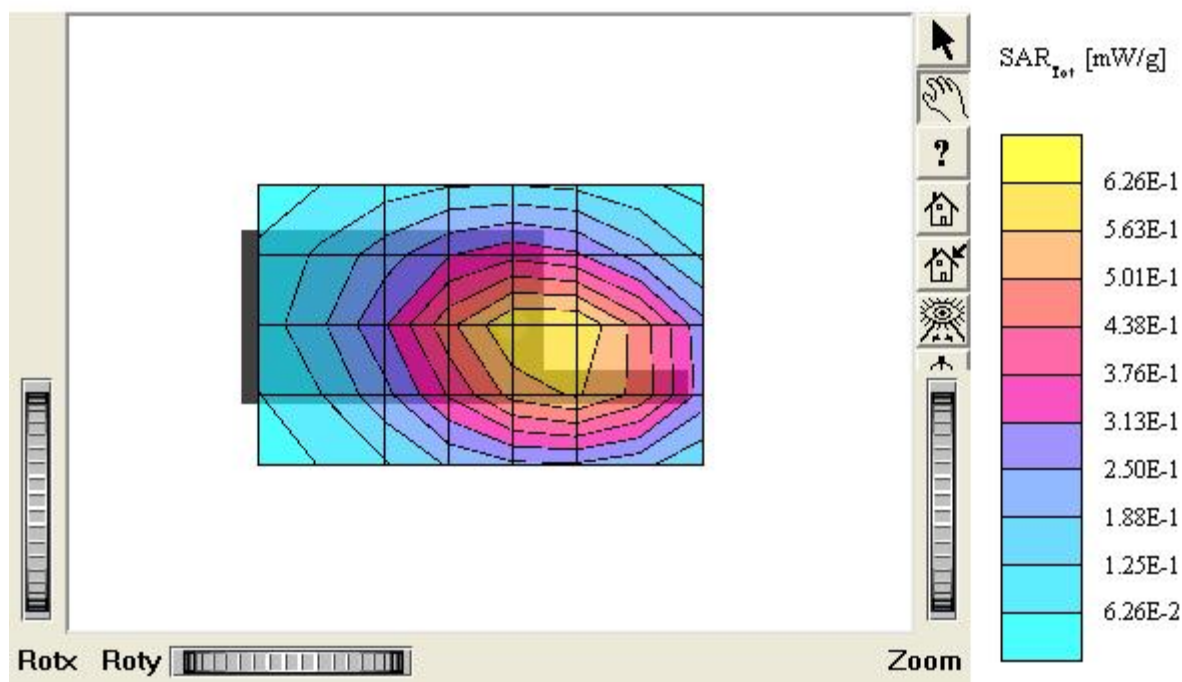
Face / Antenna: in (fixed)

Conducted Power: 1.65W (Battery Type: Bezel)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Face)

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.72,7.72,7.72); Crest factor: 1.0; Head 450 MHz: $\sigma = 0.87 \text{ mho/m}$, $\epsilon_r = 43.7$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.0669 mW/g, SAR (10g): 0.0470 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Peak: 0.106 mW/g; Powerdrift: -0.11 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

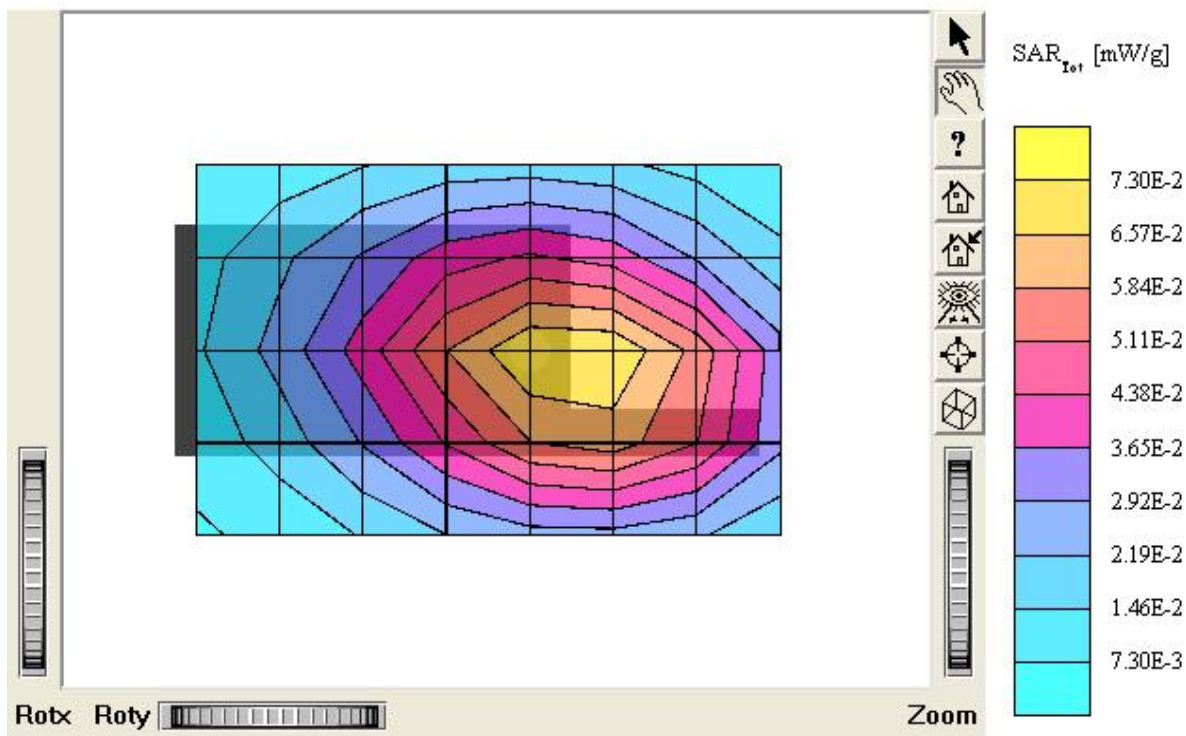
Face / Antenna: in (fixed)

Conducted Power: 0.58W (Battery Type: Bexel)

Mode: FRS Channel: 8 (467.5625 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Face)

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.72,7.72,7.72); Crest factor: 1.0; Head 450 MHz: $\sigma = 0.87 \text{ mho/m}$, $\epsilon_r = 43.7$ $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.519 mW/g, SAR (10g): 0.358 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.94 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

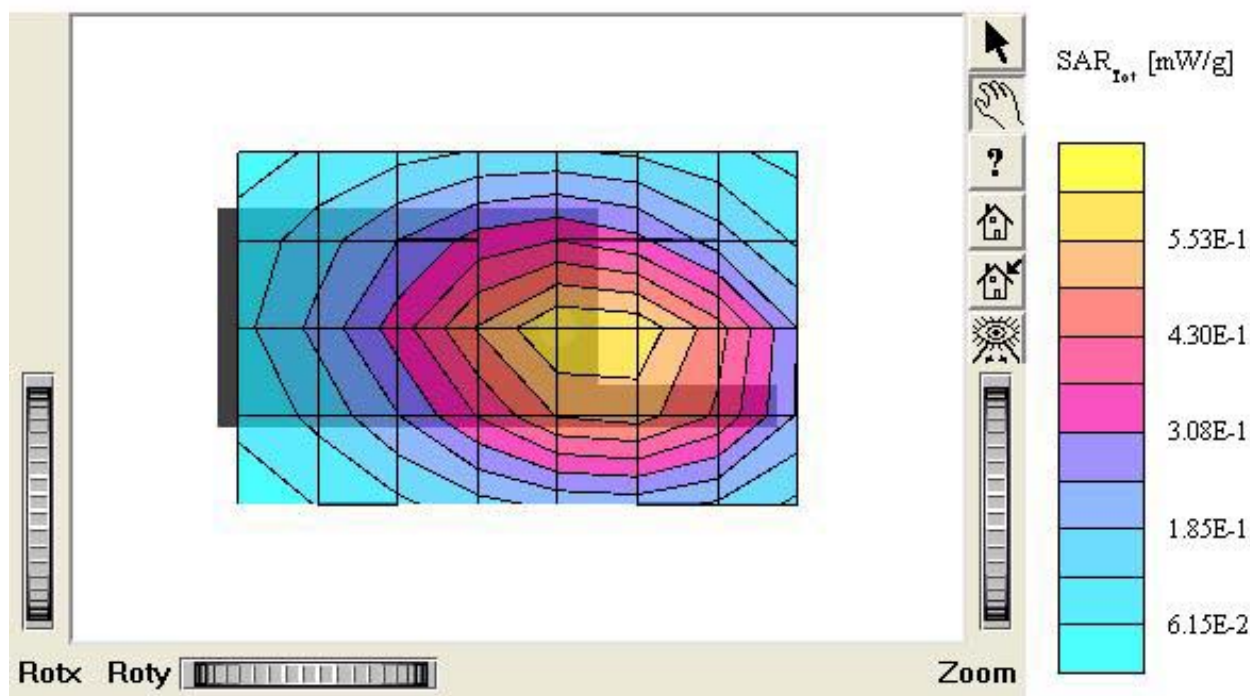
Face / Antenna: in (fixed)

Conducted Power: 1.63W (Battery Type: Rocket)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Face)

SAM I Phantom; Flat Section; Position: (90°, 90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.72, 7.72, 7.72); Crest factor: 1.0; Head 450 MHz: $\sigma = 0.87 \text{ mho/m}$, $\epsilon_r = 43.7$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.403 mW/g, SAR (10g): 0.280 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.88 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

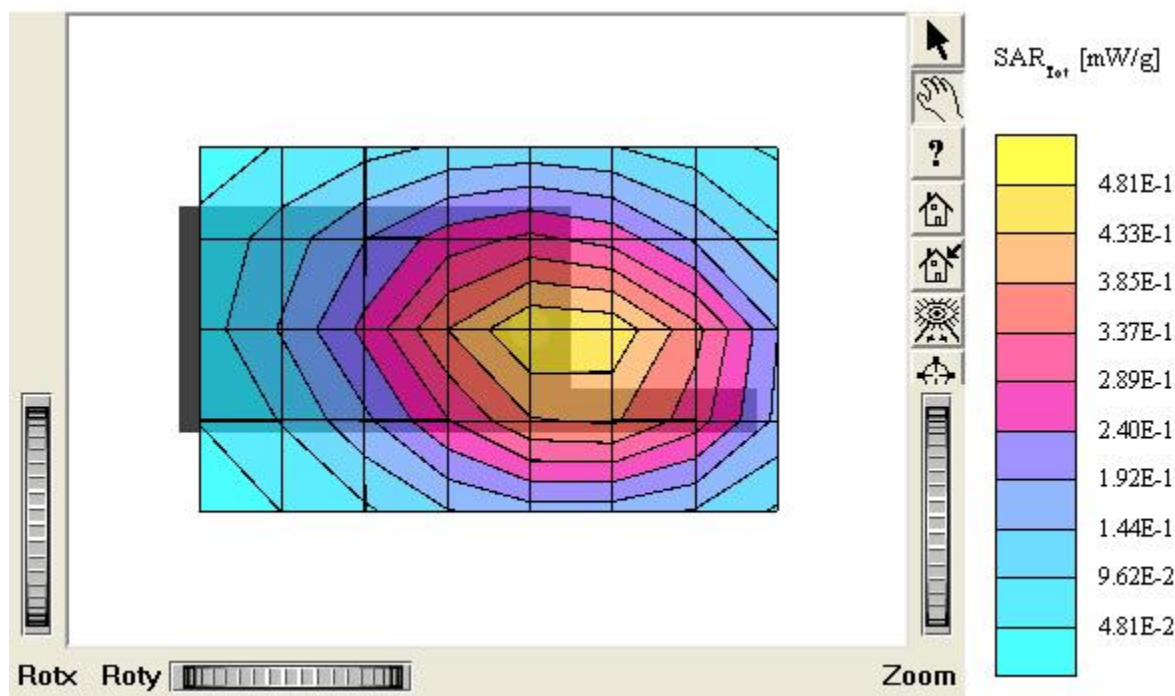
Face / Antenna: in (fixed)

Conducted Power: 1.72W (Battery Type: Energizer)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Face)

SAM I Phantom; Flat Section; Position: (90°, 90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.72, 7.72, 7.72); Crest factor: 1.0; Head 450 MHz: $\sigma = 0.87 \text{ mho/m}$, $\epsilon_r = 43.7$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.405 mW/g, SAR (10g): 0.284 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.68 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

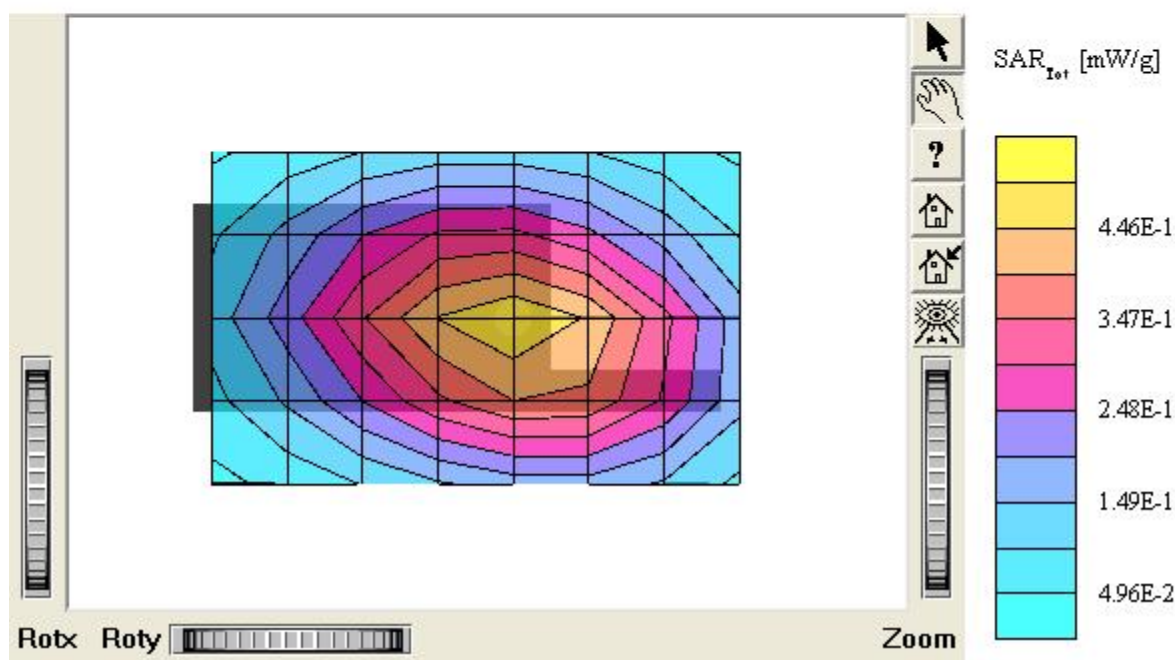
Face / Antenna: in (fixed)

Conducted Power: 1.37W (Battery Type: Lexel)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Body)

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.73,7.73,7.73); Crest factor: 1.0; Body 450 MHz: $\sigma = 0.94$ mho/m $\epsilon_r = 54.3$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.684 mW/g, SAR (10g): 0.420 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.93 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

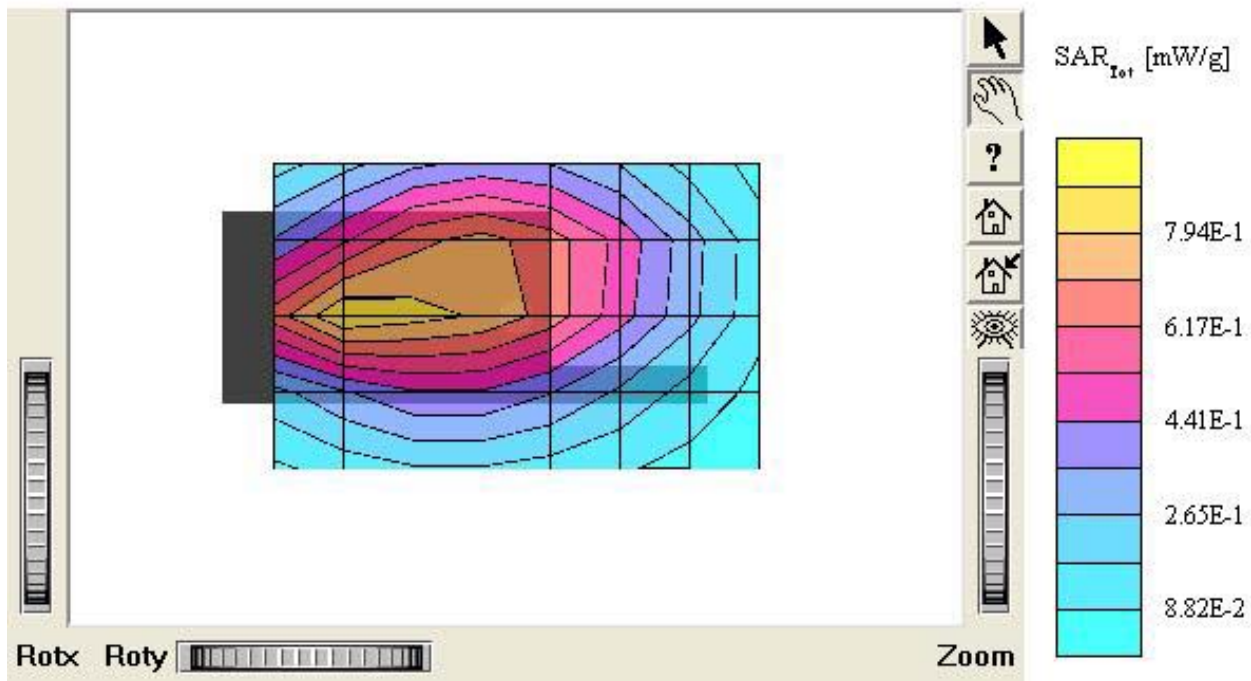
Body / Antenna: in (fixed)

Conducted Power: 1.63W (Battery Type: Bixel)

Mode: FM GMRS Channel: 1 (462.5625 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Body)

SAM I Phantom; Flat Section; Position: (90°, 90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.73, 7.73, 7.73); Crest factor: 1.0; Body 450 MHz: $\sigma = 0.94 \text{ mho/m}$, $\epsilon_r = 54.3$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7; SAR (1g): 0.660 mW/g, SAR (10g): 0.454 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.91 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

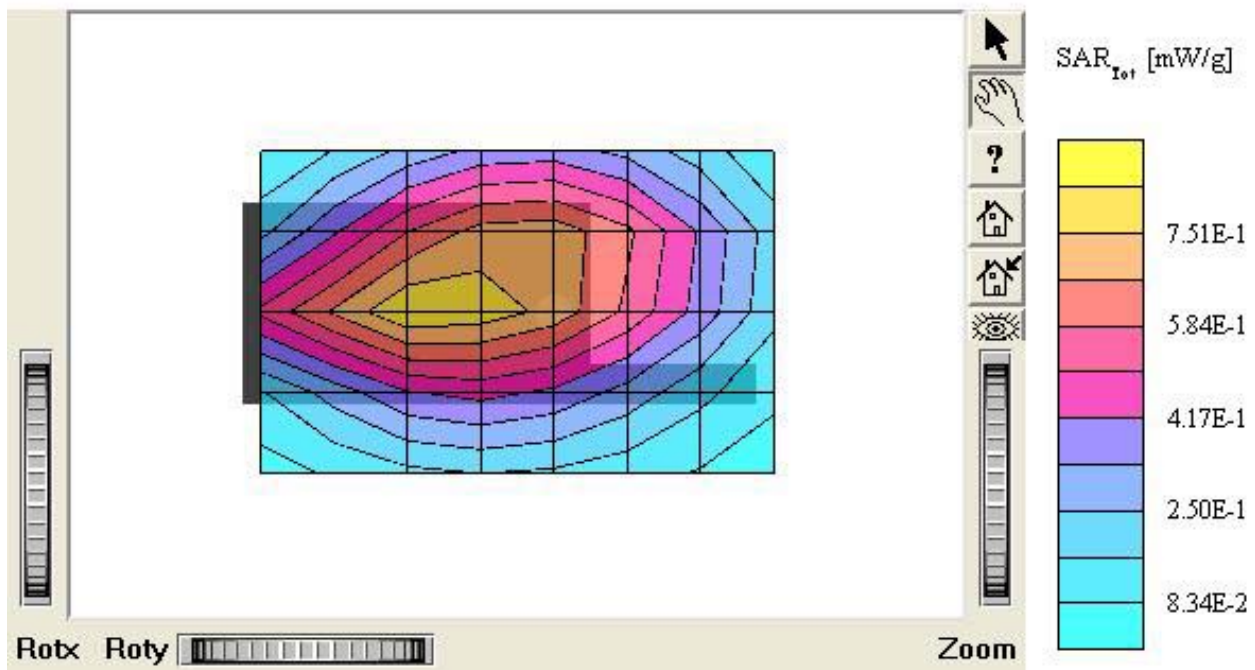
Body / Antenna: in (fixed)

Conducted Power: 1.64W (Battery Type: Bexel)

Mode: FM GMRS Channel: 15 (462.5500 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Body)

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.73,7.73,7.73); Crest factor: 1.0; Body 450 MHz: $\sigma = 0.94 \text{ mho/m}$, $\epsilon_r = 54.3$ $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7; SAR (1g): 0.686 mW/g, SAR (10g): 0.442 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.86 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

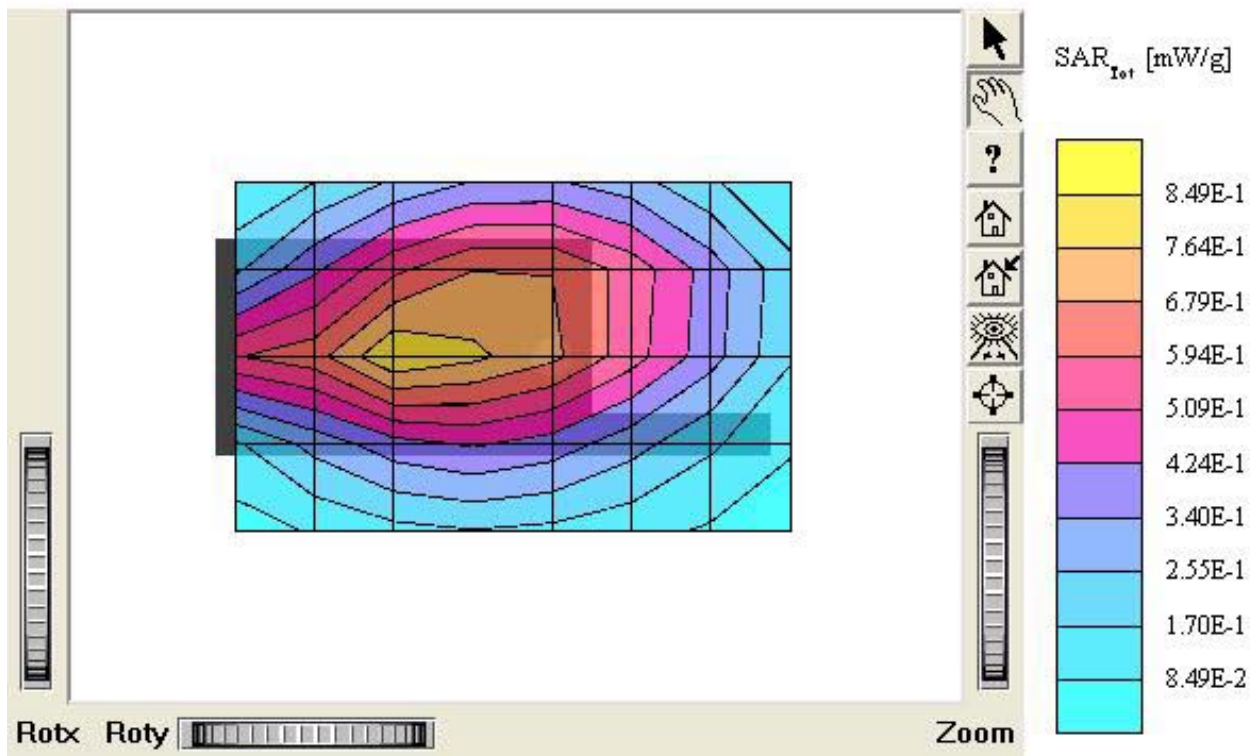
Body / Antenna: in (fixed)

Conducted Power: 1.64W (Battery Type: Bexel)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Body)

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.73,7.73,7.73); Crest factor: 1.0; Body 450 MHz: $\sigma = 0.94$ mho/m $\epsilon_r = 54.3$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.0548 mW/g, SAR (10g): 0.0385 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Peak: 0.0892 mW/g; Powerdrift: -0.53 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

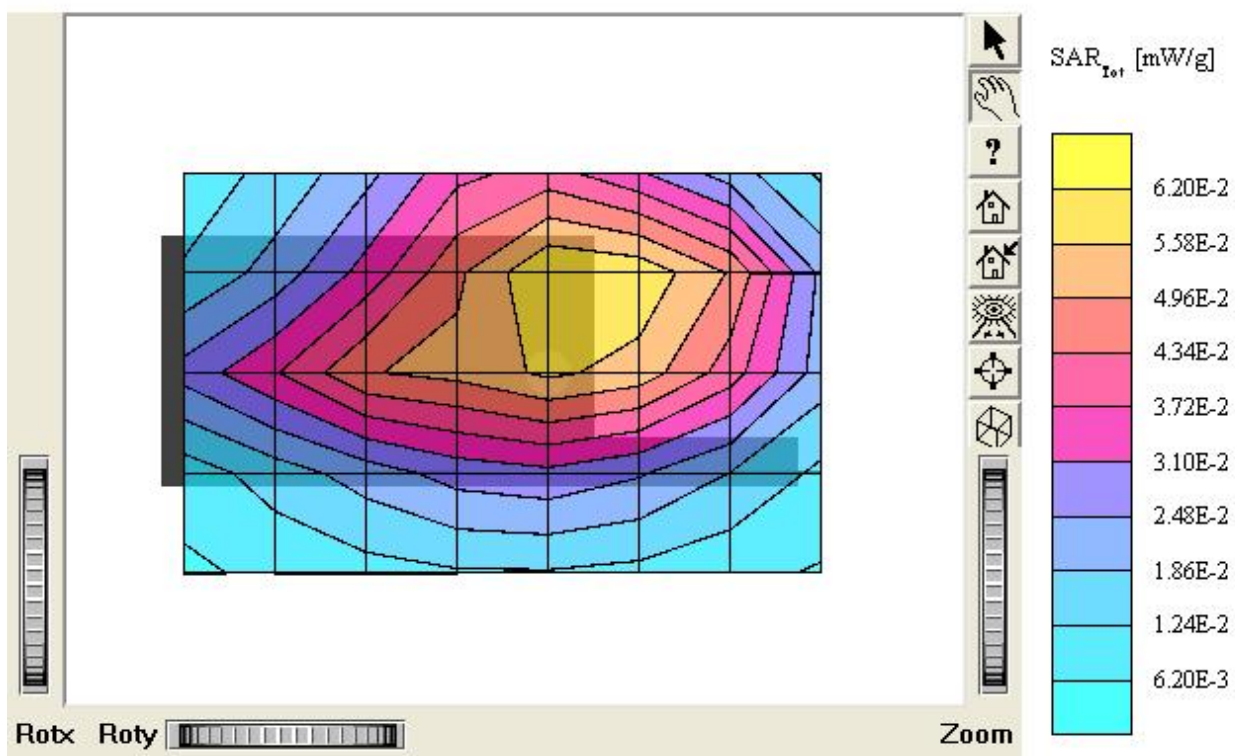
Body / Antenna: in (fixed)

Conducted Power: 0.56W (Battery Type: Bixel)

Mode: FRS Channel: 8 (467.5625 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Body)

SAM I Phantom, Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.73,7.73,7.73); Crest factor: 1.0; Body 450 MHz: $\sigma = 0.94 \text{ mho/m}$, $\epsilon_r = 54.3$ $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.491 mW/g, SAR (10g): 0.336 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.97 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

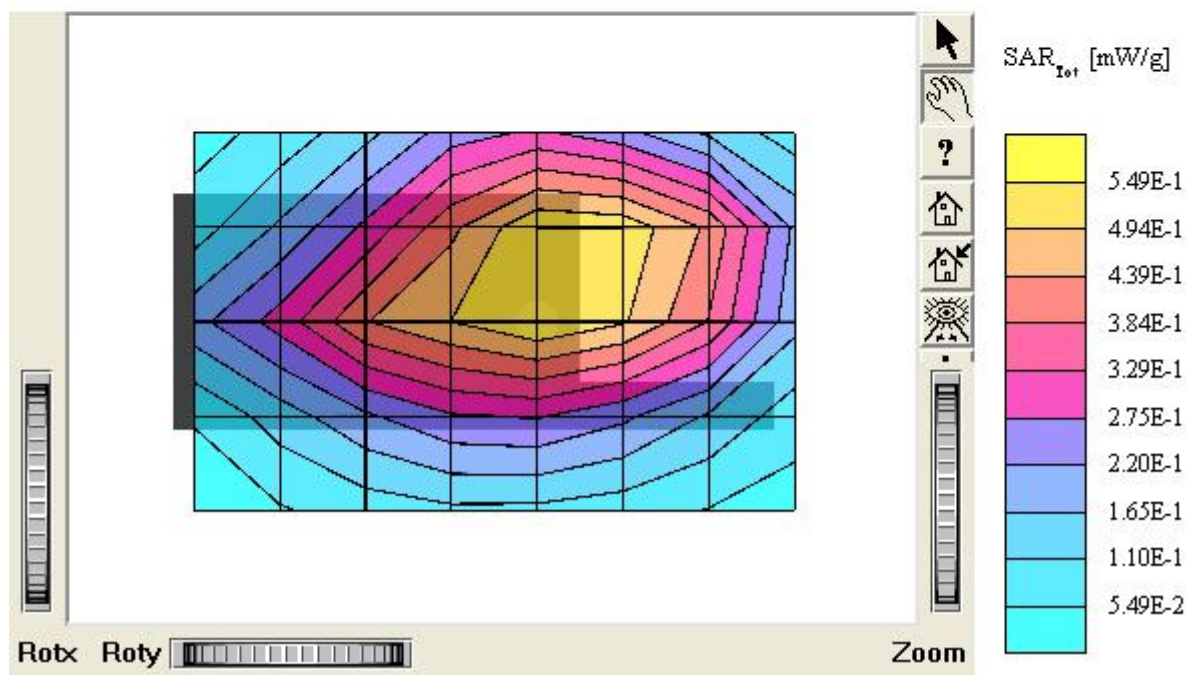
Body / Antenna: in (fixed)

Conducted Power : 1.64W (Battery Type: Rocket)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Body)

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.73,7.73,7.73); Crest factor: 1.0; Body 450 MHz: $\sigma = 0.94 \text{ mho/m}$, $\epsilon_r = 54.3$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.479 mW/g, SAR (10g): 0.330 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -1.01 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

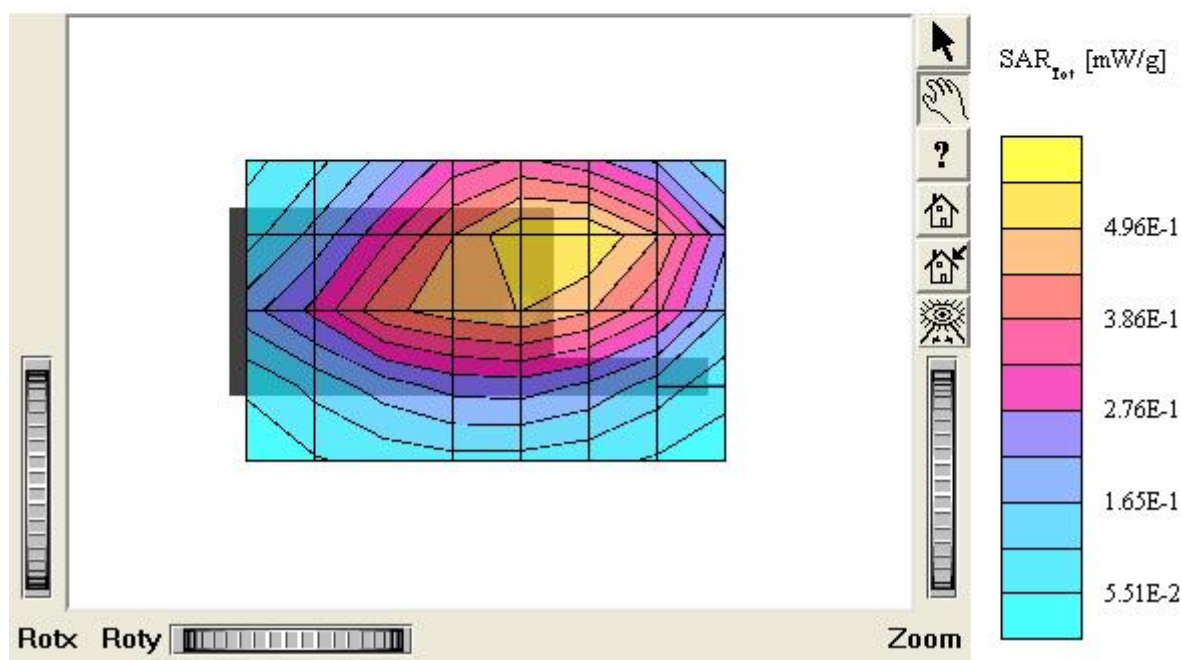
Body / Antenna: in (fixed)

Conducted Power: 1.70W (Battery Type: Energizer)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Body)

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.73,7.73,7.73); Crest factor: 1.0; Body 450 MHz: $\sigma = 0.94 \text{ mho/m}$, $\epsilon_r = 54.3$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.411 mW/g, SAR (10g): 0.287 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.53 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

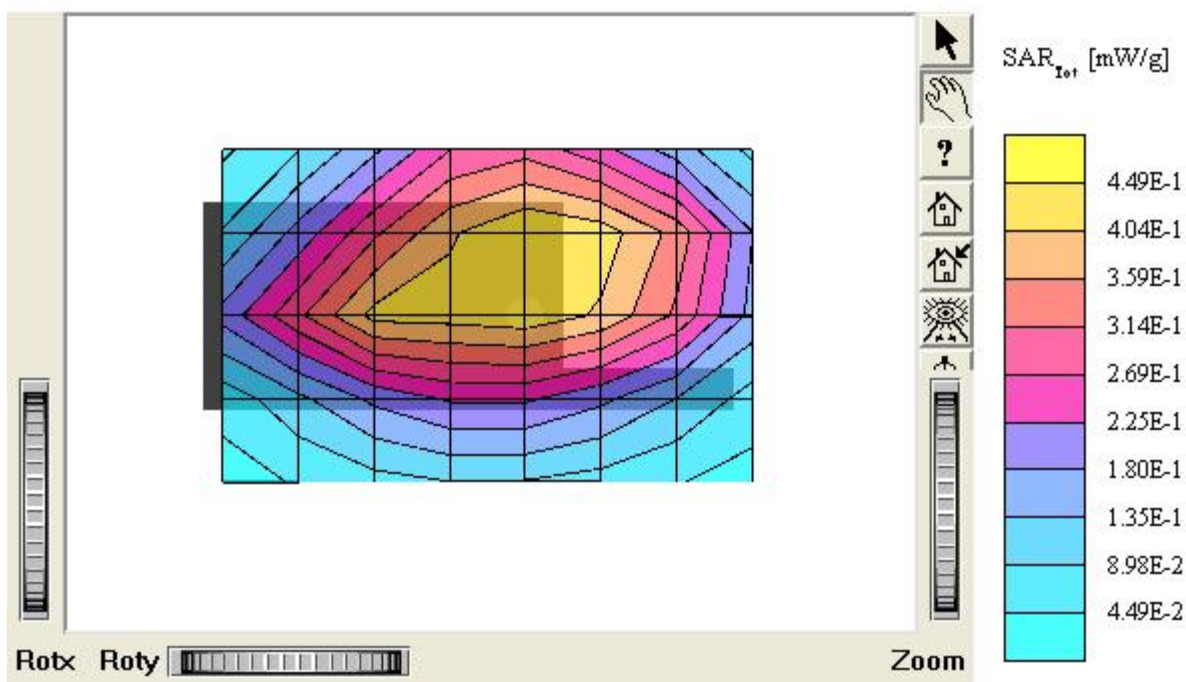
Body / Antenna: in (fixed)

Conducted Power : 1.38W (Battery Type: Lexel)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Body)

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.73,7.73,7.73); Crest factor: 1.0; Body 450 MHz: $\sigma = 0.94 \text{ mho/m}$, $\epsilon_r = 54.3$ ρ

$= 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.728 mW/g, SAR (10g): 0.465 mW/g

Coarse: Dx = 22.0, Dy = 20.0, Dz = 10.0

Powerdrift: -1.04 dB

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

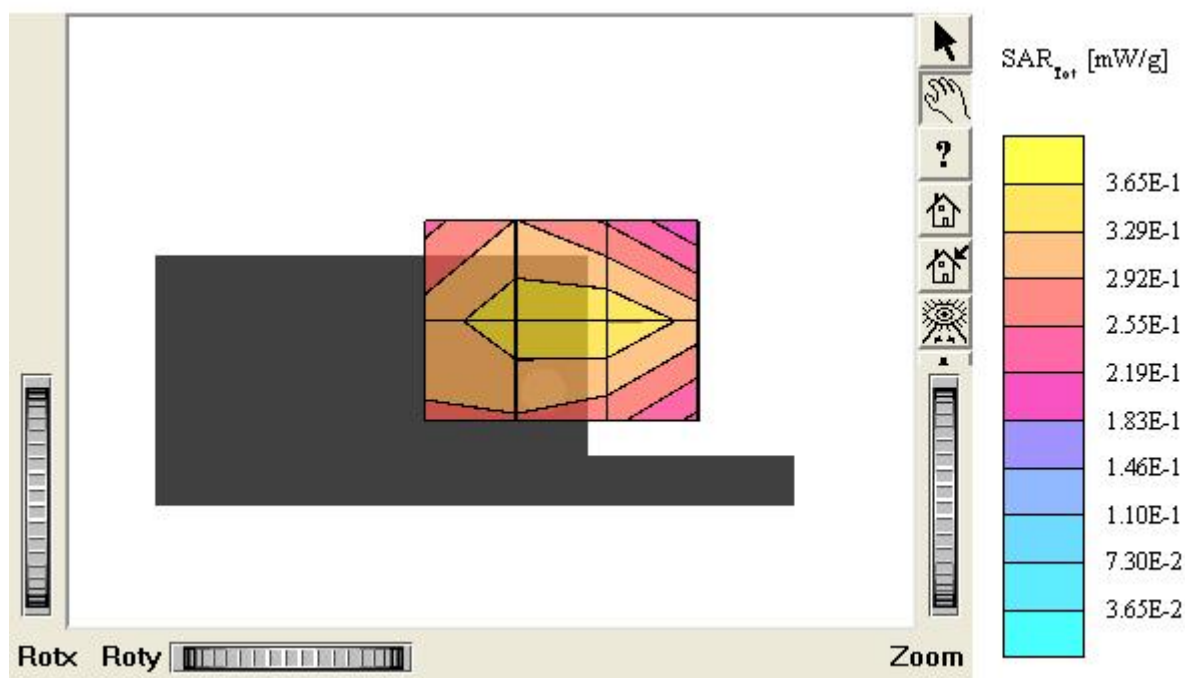
Body / Antenna: in (fixed)

Conducted Power: 1.62W (Battery Type: Bexel)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Face)

SAM I Phantom; Section; Position: ; Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.72,7.72,7.72); Crest factor: 1.0; Head 450 MHz: $\sigma = 0.87$ mho/m $\epsilon_r = 43.7$ $\rho = 1.00$ g/cm³

:

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

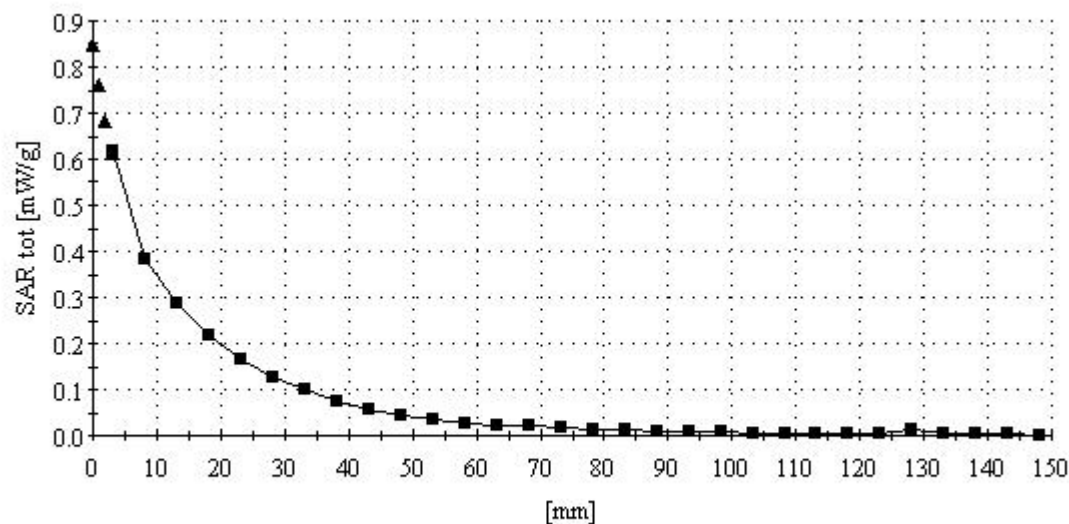
Face / Antenna: in (fixed)

Conducted Power: 1.65W (Battery Type: Bezel)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



LXT420 (Body)

SAM I Phantom; Section; Position: ; Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.73,7.73,7.73); Crest factor: 1.0; Body 450 MHz: $\sigma = 0.94 \text{ mho/m}$ $\epsilon_r = 54.3$ $\rho = 1.00 \text{ g/cm}^3$

:

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

Comment :

FCC ID : MMALXT420

Company : Midland Radio Corporation.

Body / Antenna: in (fixed)

Conducted Power: 1.64W (Battery Type: Bexel)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005

